

WHAT IS CLAIMED IS:

1. A floor coating composition comprising one or more unsaturated urethane compound(s), which is(are) obtained from an isocyanate compound(s) and a hydroxyl compound(s) as starting materials, wherein at least one of the isocyanate compound(s) and the hydroxyl compound(s) has an unsaturated bond(s), which composition characteristically satisfies the following conditions (1) and (2):

10 (1) at least one of the unsaturated urethane compounds has a poly(alkyleneoxy) group(s) in a proportion of not less than 2 wt% and not more than 16 wt% of the total amount of the isocyanate compound(s) and the hydroxyl compound(s) used for the unsaturated urethane compound(s), and

15 (2) the value obtained by multiplying the number of moles of each starting material having the unsaturated bond(s) by the number of the unsaturated bond(s) thereof, adding up the obtained values of the starting materials, dividing the resulting value by the total of the number of moles of the starting materials having the unsaturated bond(s) and multiplying the obtained value by the number of isocyanato group of the isocyanate compound(s) is not less than 6, or

20 the value obtained by multiplying the number of moles of each starting material having the unsaturated bond(s) by the number of the unsaturated bond(s) thereof, adding up the obtained values of the starting materials, dividing the resulting value by the total of the number of moles of the starting materials having the unsaturated bond(s) and multiplying the obtained value by the number of hydroxyl group of the hydroxyl compound(s) is not less than 6.

30

2. The floor coating composition of claim 1, wherein the (2) is the value obtained by multiplying the number of moles of each starting material having the unsaturated bond(s) by the number of the unsaturated bond(s) thereof, adding up the obtained values of the starting materials, dividing the resulting value by the total of the number of moles of the starting materials having the unsaturated bond(s) and multiplying the obtained value by the number of isocyanato group of the isocyanate compound(s), which is

not less than 6.

3. The floor coating composition of claim 2, wherein the number of the isocyanato groups of the isocyanate compound(s) is not less
5 than 3.

4. The floor coating composition of claim 3, wherein the isocyanate compound is a tris(isocyanatoalkyl)-substituted isocyanurate compound.

10 5. The floor coating composition of claim 2, wherein the hydroxyl compound has unsaturated bond(s).

15 6. The floor coating composition of claim 1, wherein the (2) is the value obtained by multiplying the number of moles of each starting material having the unsaturated bond(s) by the number of the unsaturated bond(s) thereof, adding up the obtained values of the starting materials, dividing the resulting value by the total of the number of moles of the starting materials having the
20 unsaturated bond(s) and multiplying the obtained value by the number of hydroxyl group of the hydroxyl compound(s), which is not less than 6.

25 7. The floor coating composition of claim 6, wherein the number of the hydroxyl groups of the hydroxyl compound(s) is not less than 3.

8. The floor coating composition of claim 6, wherein the isocyanate compound has unsaturated bond(s).

30 9. The floor coating composition of claim 1, wherein the unsaturated urethane compound has at least one group selected from the group consisting of an acryloyl group, a methacryloyl group and an allyl group.

35 10. The floor coating composition of claim 1, wherein the poly(alkyleneoxy) group is one or more group(s) selected from the group consisting of a poly(ethyleneoxy) group, a poly(propyleneoxy) group and a poly(tetramethyleneoxy) group.

11. The floor coating composition of claim 1, further comprising a curing agent.

5 12. The floor coating composition of claim 1, further comprising a poly(alkyleneoxy) group-containing epoxy resin.

13. The floor coating composition of claim 12, wherein the content
of the poly(alkyleneoxy) group-containing epoxy resin is not more
10 than 30 wt% of the total solid content.

□ 14. The floor coating composition of claim 1, which is of an aqueous emulsion system or an aqueous dispersion system.

15 15. A coating composition-coated material, which comprises a film made by curing the floor coating composition of claim 1 and a coating object to be coated.

16. The material of claim 15, wherein the coating object to be
20 coated is a floor material or a plastic film.

17. The material of claim 15, which is cured by one or more method(s) selected from the group consisting of heating, photoirradiation and electron beam irradiation.

25